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中国杜鹃花属新分类群

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NEW TAXA OF THE GENUS *RHODODENDRON* FROM CHINA

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Abstract Five new species of the genus *Rhododendron* are described from China. They are *Rhododendron oreogenum* L. C. Hu, *R. pugeense* L. C. Hu, *R. trichogynum* L. C. Hu, *R. lulangense* L. C. Hu et Y. Tateishi, *R. torquatum* L. C. Hu and additional fruit description of *R. balangense* Fang is also given.

Key words *Rhododendron*; New taxa; China

关键词 杜鹃花属；新分类群；中国

1. **藏东杜鹃** 新种 图 1

Rhododendron oreogenum L. C. Hu, sp. nov.

(Subgen. *Hymenanthes*, Sect. Ponticum, Subsect. Grandia)

In characteribus indumentorum species affinis *R. sidereo* Balf. f., sed a quo foliis paulo brevioribus angustatisque saepe 15 — 17 cm longis, 4 — 4.8 cm latis; floribus phoeniceis, lobis corollae 5, staminibus 10, ovariis 6-locularibus differt.

Arbor parva 4 — 5 m alta. Ramuli hornotini 6 mm diam., sordidi, sparse cinerascenter tomentosi mox glabrescentes. Folia persistentia, coriacea, oblonga vel ovato-oblonga 15 — 17 cm longa et 4 — 4.8 cm latis, apice acuta mucronata, basi cuneata vel late cuneata, margine leviter recurvata, supra glabra, subtus argentea in sicco flavido-cinerascentia, indumento tenuiter agglutinato e pilis persistentibus ramosis composito ubique obtecta, costa media supra impressa, subtus valde elevata, nervis lateralibus utrinque 22 — 23, supra paulo impressis subtus conspicuis; petioli cylindracei supra leviter canaliculati sparsim floccosi vel glabrescentes, 1.5 — 2 cm longi. Flores c. 16 in racemoso-umbellas terminales dispositi; rhachidibus sparsim floccosis 2.5 cm longis; bractea obovato-oblonga, extus dense villosa, mox decidua c. 2.5 cm longa et 1 cm lata; pedicelli dense

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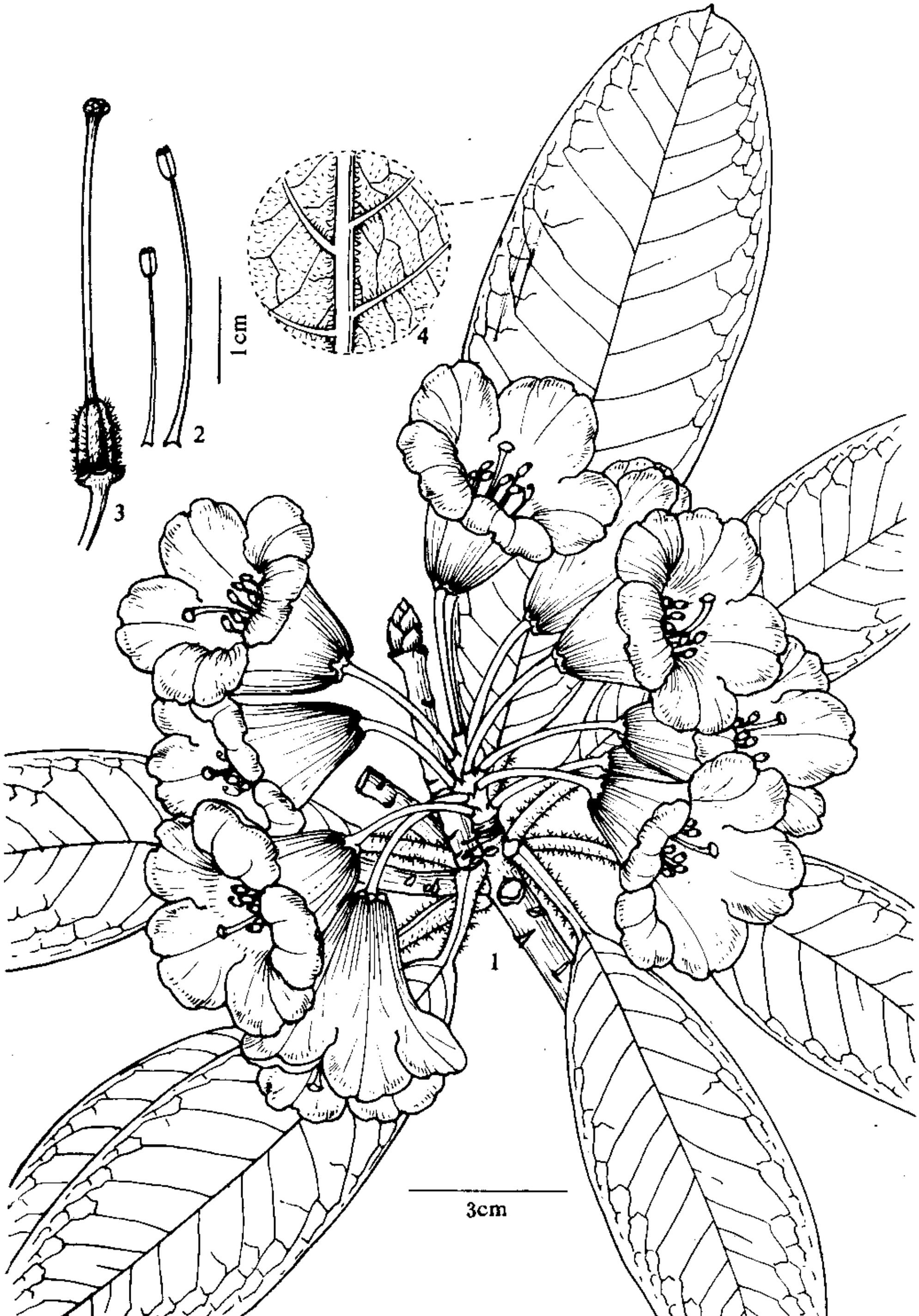


图 1　藏东杜鹃　1.花枝；2.雄蕊；3.雌蕊和花萼；4.叶背面。

Fig.1　*Rhododendron oreogenum*　1.flowering branch; 2.stamens; 3.pistil and calyx; 4. lower surface of leaf.

brunneolo－tomentosi. 1— 1.5 cm longi; calyx brevissimus 1— 1.5 mm longus, extus sparsim tomentosus, lobis 5 subrotundatis; corolla campanulata, c. 4 cm longa, phoenicea, in sicco basin versus purpurascens extus intusque glabra, lobis 5, subrotundatis, emarginatis, 1.3 — 1.5 cm longis et 2 cm latis; stamina 10, inaequalia 1.8—2.8 cm longa, filamentis glabris, antheris brunneis, oblongo－ovoideis, 3 mm longis; pistillum 3.7 cm longum, ovario oblongo－conoideo, sulcato, dense brunneolo－floccoso, 6－loculare, 6—7 mm longo et 3.5 mm diam., stylo glabro, stigmate capitato leviter lobato. Capsula non visa.

Xizang (西藏): Medog (墨脱), Beibeng (背崩), alt. 2800 — 2900 m, in Abies forests, 1983.05.03. Li Bo－sheng et Cheng Shu－zhi (李渤生、程树志) 004468 (Type, PE).

本种和银灰杜鹃 *R. sidereum* Balf. f.，在毛被特征上极似，但本种的叶稍短而窄，常长 15 — 17 cm，宽 4 — 4.8 cm，花鲜红色，花冠裂片 5，雄蕊 10，子房 6 室，易区别.

2. **普格杜鹃** 新种 图 2

Rhododendron pugeense L.C. Hu, sp. nov.

(Subgen. *Hymenanthes*, Sect. Ponticum, Subsect. Taliensia)

Species *R. bureavii* Franch. affinis, sed a quo ramulis, petiolis pedicellisque dense dendroideo－ramoso－vollosis, ovariis dense villosis, eglandulosis divergens.

Frutex. Ramuli hornotini 8 mm diam., pilis dendroideo－ramosis flavido－ferrugineis densissime vestiti eglandulosi, annotini atro－grisei glabrescentes. Folia crasse coriacea, obovato－elliptica vel obovato－oblonga, 8.5— 13 cm longa et 3.5— 5.5 cm lata, apice acuta mucronata, basi late cuneata vel subrotundata, margine leviter recurvata, supra glabra praeter costam sulcatam tomentosam, subtus rubiginosa vel flavido－ferruginea, indumento unistratoso lanato saepe crasso e pilis longis multiramosis composito confertim obsita, costa media elevata, nervis lateralibus utrinsecus 12 — 13, supra paulo impressis, subtus occultantibus; petioli 1.5— 2 cm longi, pilis flavido－ferrugineis dendroideo－ramosis dense vestiti. Flores c. 12 in umbellas terminales dispositi; rhachidibus 5 mm longis; pedicelli c. 1.2 cm longi, pilis dendroideo-ramosis flavido－ferrugineis dense vestiti; calyx magnus 7 — 8 mm longus, lobis 5 ovatis vel ovato－lanceolatis, dense villosis et pilis dendroideo－ramosis intermixtis conspersis, margine ciliatis; corolla campanulata 3 — 3.5 cm longa et 3.5 cm diam., roseola, intus sparse purpureo－maculata ad basin dense pubescentes, lobis 5, late rotundatis, emarginatis leviter crenulatis, 1.3 — 1.5 cm longis et 1.8 — 2 cm latis; stamina 10, inaequalia 1.5 — 2.5 cm longa, filamentis prope basin albo－puberulis, antheris brunneolis, ellipsoideis, 2 — 2.5 cm longis; pistillum 3.2 cm longum, ovario ovoideo 5 mm longo et 3.6 mm diam., dense villoso eglanduloso, stylo infra medium dense villoso et pilis dendroideo－ramosis

intermixtis sparse consperso. Capsula ignota.

Sichuan (四川): Puge (普格), Qingshuigou (清水沟), alt. 3500 m, in

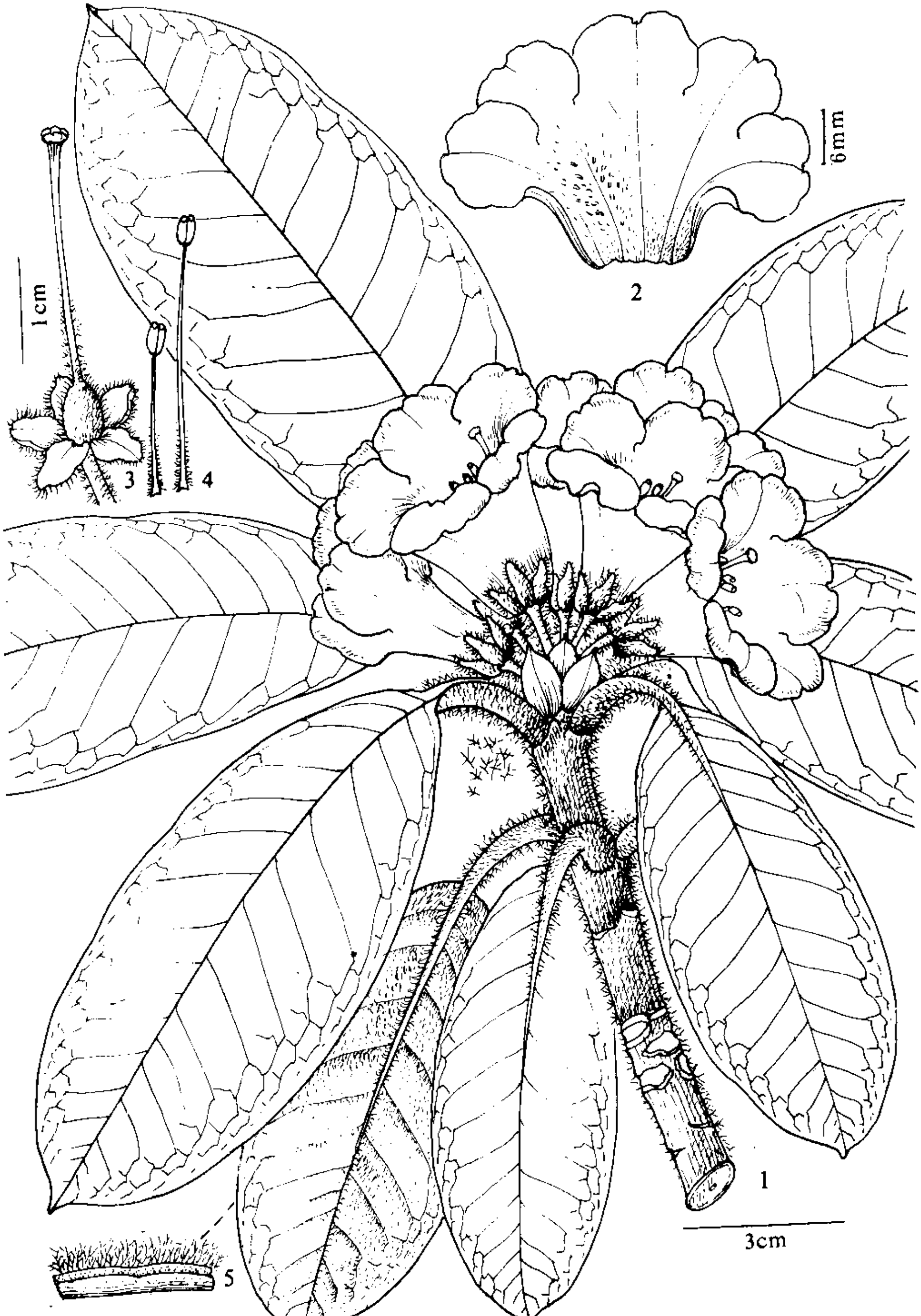


图 2 普格杜鹃 1.花枝; 2.花冠剖面; 3.雌蕊和花萼; 4.雄蕊; 5.部分叶片横切面。

Fig.2 *Rhododendron pugeense* 1.flowering branch; 2.corolla in longitudinal section; 3.pistil and calyx; 4.stamens; 5.cross section of a part of leaf.

Rhododendron thickets, shrub, flowers pink, 1985.05.18, Li Yong-jiang (李永江) 740 (Type, CDBI).

本种与锈红杜鹃 *R. bureavii* Franch. 相似，但本种小枝、叶柄和花梗均密被树状分枝长柔毛，子房密被长柔毛，无腺体而不同。

3. **理县杜鹃** 新种 图 3

Rhododendron trichogynum L.C. Hu, sp. nov.

(Subgen. *Hymenanthes*, Sect. Ponticum, Subsect. Taliensia)

Species *R. przewalskii* Maxim. proxima, sed a quo foliis subtus indumentis persistentibus indutis, calycibus majoribus, lobis 8 — 10 mm longis, margine glanduloso-ciliatis, ovariis dense brunneolo-pubescentibus differens.

Arbuscula sempervirens 7 m alta. Ramuli validi, apice 7 mm diam., glabri, juveniliores viridescentes, in sicco atro-purpurei, vetustiores atro-cinerei. Folia coriacea ovato-elliptica vel oblonga 7.5 — 9 cm longa et 3.2 — 4.5 cm lata, apice acuta et mucronata, basi late cuneata vel subcordata, margine subintegra in sicco leviter recurvata, supra viridia, glabra, rugulosa, subtus flavido-brunnea indumento tenuiter plus minusve agglutinato dense vestita, costa media supra impressa, subtus elevata, nervis lateralibus 10 — 11, supra leviter impressis, subtus obsoletis vel paulo conspicuis; petioli glabri, supra complanati leviter canaliculati, subtus subrotundati, 1 — 1.5 cm longi. Flores 8 — 15 in racemoso-umbellas terminales dispositi; rhachidibus sparsim puberulis, c. 1 cm longis; bractea caduca, bracteola lineari-lanceolata sparsim pubescens, 1 — 1.3 cm longa; pedicelli glabri vel sparse floccosi, 1 — 2 cm longi; calyx magnus profunde 5-lobatus lobis oblongis, 8 — 10 mm longis et 3 — 4 mm latis, extus basin versus sparsim puberulis, margine glanduloso-ciliatis; corolla campanulata 3 — 3.5 cm longa et 4 cm diam., alba, postice ad lobos superiores coccineo-maculata, intus prope basin puberula, lobis 5, subrotundatis, emarginatis, 1.2 — 1.5 cm longis et 1.8 — 2 cm latis; stamina 9 — 10, inaequalia, 1.5 — 2.5 cm longa, filamentis infra medium dense albo-pubescentibus, antheris ochraceis, oblongo-ellipsoideis, 2.5 mm longis; pistillum 3.3 cm longum, ovario conoideo, sulcato, dense brunneo-pubescenti, 5 mm longo, stylo glabro, stigmate subdiscoideo. Capsula desideratur.

Sichuan (四川): Li Xian (理县), Longxixiang (龙溪乡), Aergoucheng (阿尔沟城), Dongba (东坝), alt. 3100 m, in forests, 1952.06.10, He Zhu (何铸) 12731 (Type, SZ; isotype, IBG).

本种与陇蜀杜鹃 *R. przewalskii* Maxim. 相近，但本种叶下面毛被宿存，花萼较大，裂片长 8 — 10 mm，边缘具腺头纤毛，子房密被淡褐色短柔毛，故易区别。

4. **鲁浪杜鹃** 新种 图 4

Rhododendron lulangense L.C. Hu et Y. Tateishi[1)], sp. nov.

(Subgen. *Hymenanthes*, Sect. Ponticum, Subsect. Taliensia)

Species *R. principi* Bur. et Franch. affinis, sed a quo foliis saepe majoribus 8.5

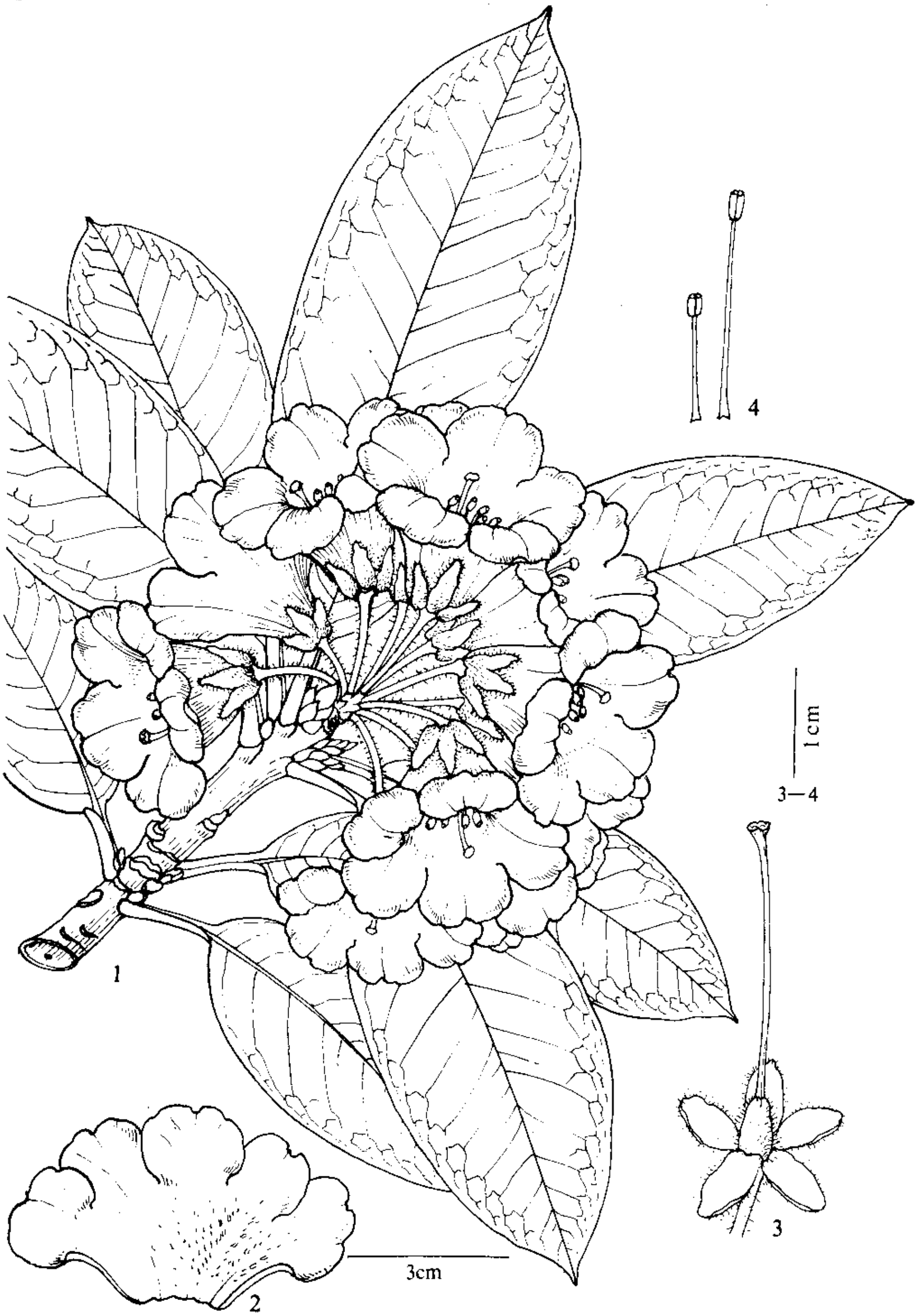


图 3 理县杜鹃 1.花枝; 2.花冠剖面; 3.雌蕊和花萼; 4.雄蕊。

Fig. 3 *Rhododendron trichogynum* 1.flowering branch; 2.corolla in longitudinal section; 3.pistil and calyx; 4.stamens.

—15.5 cm longis et 2.5—5 cm latis, subtus indumentis tenuiter unistratosis e pilis breviter radiato-ramosis compositis adpresse obtectis, corollis non maculatis et ovariis sparsim pubescentibus et brevistipitate glandulosis distinquitur. Frutex vel arbuscula c. 3—4 m alta. Ramuli cylindrici, apice 4—5 mm diam., juveniliores dense cinerascentes vel albido-tomentelli, vetusti glabrescentes. Folia persistentia, crasse coriacea, oblongo-elliptica vel anguste oblonga 8.5—15.5 cm longa et 2.5—5 cm lata, apice breviter acuminata mucronata, basi late cuneata vel subrotundata, margine integra in sicco recurvata, supra glabra, nitida, in sicco flavovirentia vel olivacea, subtus alba, indumento unistratoso e pilis brevibus radiato-ramosis composito adpresse vestita, costa media supra impressa, subtus elevata, nervis lateralibus 13—16 utrinque leviter conspicuis; petioli supra complanati leviter canaliculati, subtus subrotundati sparse vel dense pallido-floccosi, 2—2.5 cm longi. Flores 6—10 in breviter racemoso-umbellas terminales dispositi; rhachidibus puberulis, c. 1 cm longis; bracteae mox deciduae, bracteolae lineares dense sericeae, 6 mm longae; pedicelli rubri, pilis ramosis et glandulis stipitatis intermixtis sparsim conspersi, 2.5—3 cm longi; calyx parvus, 1—2 mm longus, glaber, lobis late triangulis vel subrotundatis; corolla infundibuliformi-campanulata, 3—4 cm longa et 3—3.5 cm diam., rubella, intus basi rubro-purpurea sparsim puberula, extus glabra, lobis 5, subrotundatis, emarginatis, 1.4—1.5 cm longis et 1.8—2 cm latis; stamina 10, inaequalia, 1.5—2.4 cm longa, filamentis complanatis prope basin puberulis, antheris dilute purpureo-brunneis vel brunneolis, oblongo-ovoideis, 2.5—3 mm longis; pistillum 3.2 cm longum, ovario oblongo-conoideo, sparsim pubescenti et glandulis brevi-stipitatis consperso, 7 mm longo, stylo glabro, stigmata subdiscoideo leviter lobato. Capsula non visa.

Xizang (西藏): Nyingchi (林芝), Serjilashan (色季拉山), alt. 3700 m, 1986.05.19, T. Naito, Lang Kai-yong, Y. Tateishi, T. Nemoto et Li Bo-sheng 1203 (Type, PE, isotype, deposited in Herbarium of North-Eastern University, Japan); 1200, 1211; same county, Lulang (鲁浪), alt. 3100 m, in open place, 1986.05.15—18, same collectors 1065; same locality, alt. 3700—3800 m, in Abies forests, same collectors 1133; same county, Bayi (八一), alt. 3000—3300 m, 1986.05.20, same collectors 1276.

本种与藏南杜鹃 R. principis Bur. et Franch. 相近，但本种叶较大，长 8.5—15.5 cm，宽 2.5—5 cm，下面被一层由短分枝毛组成的薄毛被，花冠不具斑点，子房疏被短柔毛和短柄腺体，易区别。

5. **曲枝杜鹃** 新种 图 5:1—3

1）日本东北大学。

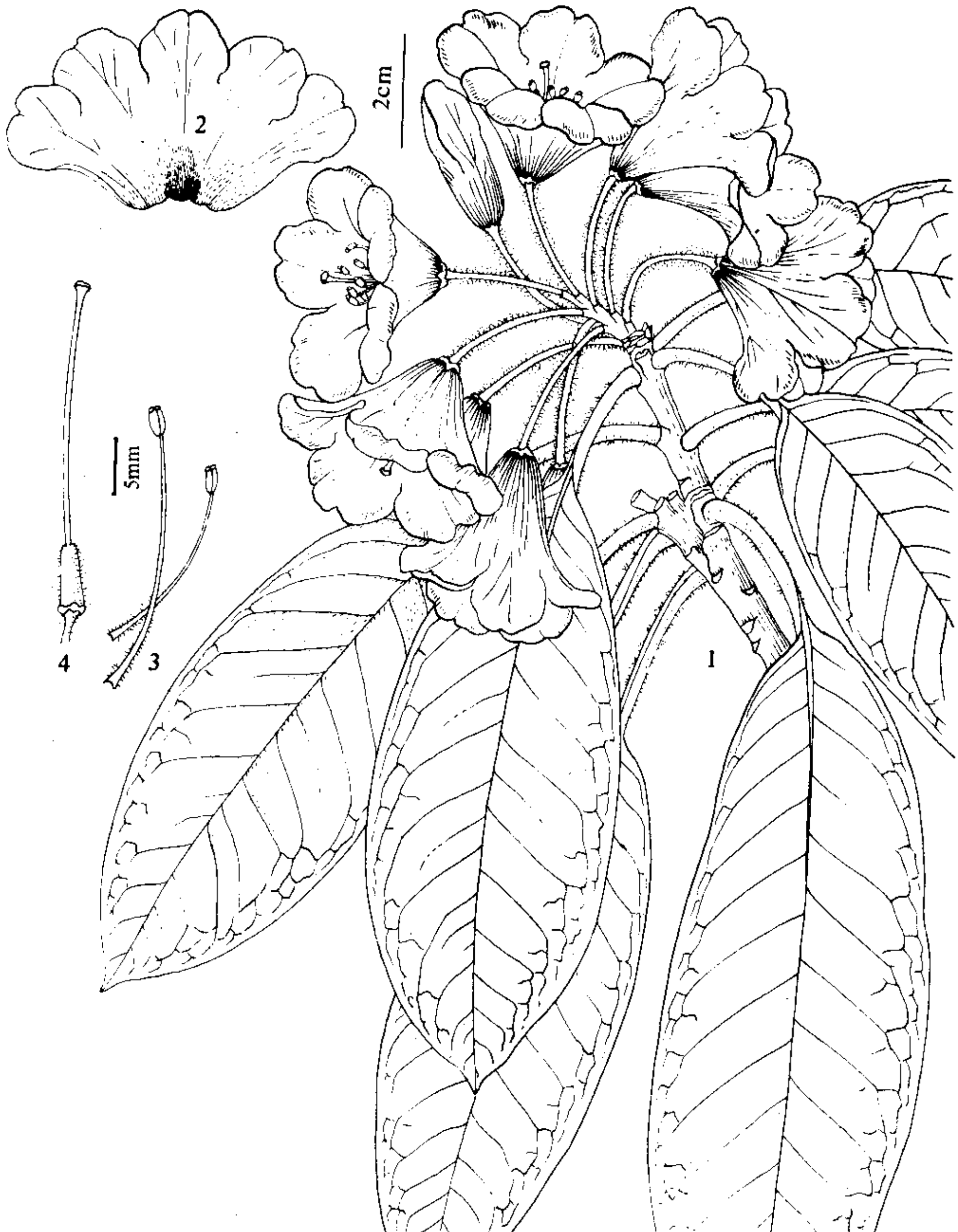


图 4 鲁浪杜鹃 1.花枝; 2.花冠剖面; 3.雄蕊; 4.雌蕊和花萼。

Fig.4 *Rhododendron lulangense* 1.flowering branch; 2.corolla in longitudinal section; 3.stamens; 4.pistil and calyx.

Rhododendron torquatum L. C. Hu, sp. nov.

(Subgen. Hymenanthes, Sect. Ponticum, Subsect. Taliensia)

Species *R. beesiano* Diels affinis, sed a quo caulibus caespitosis, ramulis torquatis, foliis brevioribus minoiribusque plerumque 11 — 14 cm longis et 4 — 4.5 cm latis, subtus indumentis albis agglutinatis vestitis, petiolis brevissimis et latissimis, ovariis glabris divergens.

Frutex, 3.5 m altus. Ramuli torquati, apice 6 mm diam., sparsim pallide piloselli, Folia persistentia, coriacea, lanceolata vel obovato-lanceolata, 11 — 14 cm longa et 4 — 4.5 cm lata, apice breviter acuminata et mucronata, basi cuneata, margine leviter recurvata, supra opaca in sicco brunnea, glabra, subtus alba indumento unistratoso agglutinato confertim obtecta, costa media supra impressa, subtus distinte elevata, nervis lateralibus 16 — 18, supra leviter impressis subtus plus minusve conspicuis; petioli breves, 6 — 8 mm longi ad 5 mm lati, glabrescentes. Flores c. 10 in racemoso-umbellas terminales dispositi; rhachidibus flavido-floccosis, 1 cm longis; bracteae mox caducae, bracteolae lineares extus albidosericeae, 1 — 1.2 cm longae; pedicelli sparsim albescenter floccosi, 2 — 2.5 cm longi; calyx parvus, extus sparsim albescenter floccosus, 1 — 1.5 mm longus, lobis 5, triangulatis; corolla infundibuliformi-campanulata, 2.5 — 3 cm longa et 2.5 cm diam., alba vel rubescens, purpurea maculata, intua prope basin sparse albo-puberula, lobia 5, subrotundatis leviter emarginatis, 1 — 1.2 cm longis et 1.5 — 1.7 cm latis; stamina 10, inaequalia, 1.5 — 2.2 cm longa, filamentis gracilibus basin versus albo-puberulis, antheris ochraceis, oblongo-ovoideis 2 mm longis; pistillum 2.7 cm longum, ovario anguste cylindrico glabro, 6 mm longo et 2.5 mm diam.; stylo glabro, stigmate capitata leviter lobato. Capsulae non visae.

Gansu (甘肃): Xigu (西固), alt. 3600 m, in alpine Abies and Picea forests, 1951.06.18, T.P. Wang (王作宾) 15233 (TYPE, PE).

本种与宽钟杜鹃 *R. beesianum* Diels 相近，但本种茎簇生，小枝卷曲，叶较短小，常长11 — 14 cm，宽 4 — 4.5 cm，下面毛被白色，粘结，叶柄极短而宽，子房无毛，易于区别.

5. **巴郎杜鹃** 图 5:3 — 4

Rhododendron balangense Fang in Act. Phytotax. Sin. **21** (4): 468. 1983.

Descr. fr. add.: Fructus c. 9 terminales, racemoso-umbellatus. Capsula oblongo-cylindrica, prope basin paulo curvata, 5-valvata, 2.2 — 2.8 cm longa et 4 — 6 mm diam., in sicco brunnea, glabra, ad basin calyce persistenti circumdata; pedicellis 3.5 — 4 cm longis.

Sichuan (四川): Maowen (茂汶), 1952.06. He Zhu et Zhou Zi-lin (何铸、周子林) 13462 (Type, PE).



图 5 1—3.曲枝杜鹃 1.花枝；2.雌蕊和花萼；3.雄蕊。4—5. 巴郎杜鹃 4.果枝；5.蒴果。
Fig.5 1—3. *Rhododendron torquatum* 1. flowering branch; 2. pistil and calyx; 3. starmen. 4—5. *R. balangense* 4. fruiting branch; 5. capsule.